To: Rengao Song[rsong@lwcky.com]

From: Smith, Art

Sent: Fri 1/24/2014 9:03:12 PM

Subject: Lunch Next Week

I'm in town all next week. Pick a day, time, and place and I'll meet you there.

From: Smith, Art

Sent: Saturday, January 18, 2014 11:02 AM

To: 'Rengao Song'

Subject: RE: Saturday Ohio River MCHM Update

Sounds good to me.

From: Rengao Song [mailto:rsong@lwcky.com]
Sent: Saturday, January 18, 2014 10:21 AM

To: Smith, Art

Subject: RE: Saturday Ohio River MCHM Update

Great. Thanks Art.

We need to have lunch.

From: Smith, Art [mailto:Smith.Art@epa.gov]
Sent: Saturday, January 18, 2014 10:11 AM

To: Rengao Song

Subject: RE: Saturday Ohio River MCHM Update

Thanks very much for sharing the information that LWC has generated for this incident. At this point, I think Region 4 is pulling out of the management end of things, and this has been helpful in getting to that point.

From: Rengao Song [mailto:rsong@lwcky.com]
Sent: Saturday, January 18, 2014 9:48 AM

To: Jerry Schulte (jschulte@orsanco.org); Smith, Art; Roney, Julie (EEC) (Julie.Roney@ky.gov); Lila Ziolkowski (lziolkowski@orsanco.org); Travis Luncan (tluncan@orsanco.org); Evansville Water - Tim Hall (thall@ewsu.com); [Ex. 6 - Personal Privacy @amwater.com; Whitteberry, Bruce (Bruce.Whitteberry@gcww.cincinnati-oh.gov); Swertfeger, Jeff (Jeff.Swertfeger@gcww.cincinnati-oh.gov); Mary Carol Wagner (wagner@nkywater.org)

Subject: FW: Saturday Ohio River MCHM Update

FYI

From: Rengao Song

Sent: Saturday, January 18, 2014 9:46 AM

To: Kelley Dearing-Smith

Cc: Jim Brammell; Spencer Bruce; Jack Wang; Larry Bryant; John Azzara; Water Quality Compliance; Distribution

Water Quality

Subject: Saturday Ohio River MCHM Update

Kelley,

Current status:

- From 0 AM today of 01/18/2014, the Ohio River MCHM has been below 1 ppb (Below Reporting Limit) and there have been no sweet odor detections.
- There have been 0 detections of MCHM in any processed water: reservoir effluent and finished water by both instrumentation and odor panel.
- There have been NO odor detections with the RBF samples.

Monitoring:

- We will continue to monitor the raw water every 4 hours during day time.
- We will continue to monitor the processed water every 4 hours during day time and RBF water daily.

Treatment:

Carbon dosage is reduced from 380 to 200 #/MG to remove any residual effects.

Factors for Low MCHM Concentrations at Zorn (two major factors):

- Dilution from tributes including Kentucky River and Great Miami River.
- Some lateral mixing and significant longitudinal dispersion especially at such high river flow (Figure below).

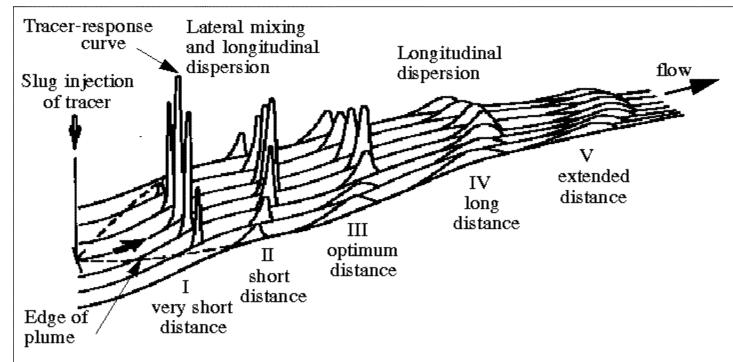


Figure 1. Lateral mixing and longitudinal dispersion patterns and changes in distribution of concentration downstream from a single, center, slug injection of tracer. (Modified from Kilpatrick, 1993, p. 2.)